Algebra 2 Chapter 3 Test Review

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve each system of equations by graphing. (10 points each)**

1. 





2.) 





**Solve each system by substitution. (10 points each)**

3.) 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.) 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve each system by elimination (10 points each)**

5.) 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.) 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graph the Systems of Inequalities. (10 points each)**

7.) 



8.) 



9.) 



10) The school that Lisa goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 senior citizen tickets and 5 studnets tickets for a total of $102. The school took in $126 on the scond day by selling 7 senior citizen tickets and 5 student tickets. What is the price each of one senior citizen ticket and one student ticket?

11) The senior class at Oxford Area High School and Avon Grove High School planned separate trips to NYC. The senior class at Oxford rented and filled 1 van and 6 buses with 372 students. Avon Grove rented and filled 4 vans and 12 buses with 780 students. Each van and each bus carried the same number of students. How many studnets can a van carry? How many students can a bus carry?